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High energy density electric cell - with cathode active material of
quaternary ammonium charge transfer complex contg. iodine

Patent Assignee: MATSUSHITA ELEC IND CO LTD (MATU)

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Abstract (Basic): JP 52036725 A

Cathode active material contained in a battery case, iodine-added
charge transfer complex with quat. ammonium radical liq. at room temp.
A nickel mesh collector is connected to the case for high efficiency
discharge. A lithium anode into which a nickel mesh is introduced is
inserted in the cathode active material. A thin film electrolyte layer
of lithium iodide is formed on the surface of the anode. An anode
terminal is air-tightly sealed using glass an insulating plate and
epoxy resin packing material.

The cathode active material is obtd. by mixing alkyl-ammonium
iodide RNI and 12 to form complex RNIX (x > 1) e.g. N-methylpyridium
iodide, 1-methyl-2H pyrolium iodide etc. High energy density and wide
operating temp. range may be obtd. without using complex construction.
Derwent Class: A85; E13; E19; L03; X16
International Patent Class (Additional): H01M-004/58; H01M-006/18